My Reproducible Manuscript

Lidiya Mishieva

Meet Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://quarto.org.

Meet the penguins

The `penguins` data from the palmerpenguins package (M. Horst, Presmanes Hill, and B. Gorman 2022) contains size measurements for 344 penguins from three species observed on three islands in the Palmer Archipelago, Antarctica.
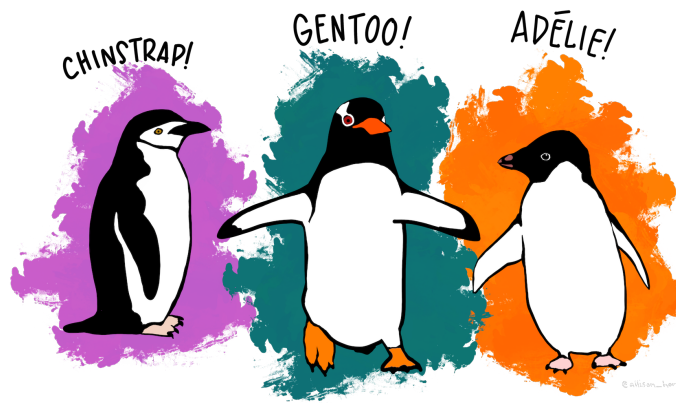

Figure 1: Amazing illustration

And this is just a random inline text reference for exercising purposes using the book by Gandrud (2018).
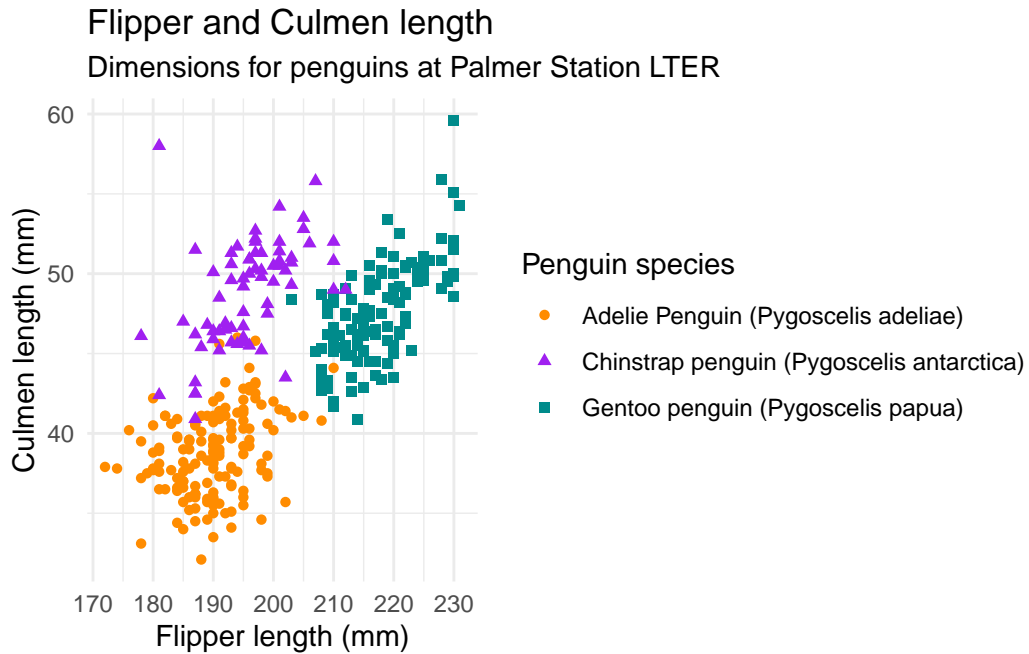
Results

Figure 2: Amazing penguin scatterplot

Example of an inline code: 25 plus 25 equals 50. Also the data contains 152 Adelie penguins, 124 Gentoo penguins, and 68 Chinstrap penguins.

Example of sourcing the code

```r
do_addition <- function(number1, number2){

        # Check that arguments provided are numberic
        if(class(number1) != "numeric" | class(number2) != "numeric"){
                print("Error: one or more of your inputs are not numeric")

        # Perform simple addition and return the result
        } else{
                result <- number1 + number2
                return(result)
        }
}
```

```r
a <- 4
b <- 3
do_addition(a, b)
```

```
[1] 7
```

References

Gandrud, Christopher. 2018. *Reproducible Research with R and RStudio*. 2nd ed. Chapman; Hall/CRC. https://doi.org/10.1201/9781315382548.

M. Horst, Allison, Alison Presmanes Hill, and Kristen B. Gorman. 2022. "Palmer Archipelago Penguins Data in the Palmerpenguins R Package - An Alternative to Anderson's Irises." *The R Journal* 14 (1): 244–54. https://doi.org/10.32614/RJ-2022-020.